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| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTORNEY DOCKET NUMBER TIC-0085 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (if known see 37 CFR 1.5) 10/523,209 |
| INTERNATIONAL APPLICATION NO. PCT/JP03/09454 | INTERNATIONAL FILING DATE 25 July 2003 (25.07.2003) | PRIORITY DATE CLAIMED 02 August 2002 (02.08.2002) |
| TITLE OF INVENTION DIGITAL VCO AND PLL CIRCUIT USING THE DIGITAL VCO | | |
| APPLICANT(S) FOR DO/EO/US Takashi AOYAMA and Hiroshi MIYAGI | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. | | |
| 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. | | |
| 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below. | | |
| 4. <input type="checkbox"/> The US has been elected (Article 31). | | |
| 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)). | | |
| a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). | | |
| b. <input type="checkbox"/> has been communicated by the International Bureau. | | |
| c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). | | |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). | | |
| a. <input type="checkbox"/> is attached hereto. | | |
| b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). | | |
| 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) | | |
| a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). | | |
| b. <input type="checkbox"/> have been communicated by the International Bureau. | | |
| c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. | | |
| d. <input type="checkbox"/> have not been made and will not be made. | | |
| 8. <input type="checkbox"/> An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4). | | |
| 10. <input type="checkbox"/> An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11. to 20. below concern other document(s) or information included: | | |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input type="checkbox"/> A preliminary amendment. | | |
| 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. | | |
| 15. <input type="checkbox"/> A substitute specification. | | |
| 16. <input type="checkbox"/> A power of attorney and/or change of address letter. | | |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.182-1.825. | | |
| 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). | | |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |
| 20. <input checked="" type="checkbox"/> Other items or information: - Communication; - a return postcard. | | |
| EV482611603US | | |
| EXPRESS MAIL Mailing Label No. EV 482611603 US Date of Deposit: July 19, 2005 | | |

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| U.S. APPLICATION NO. (if known 37 C.F.R. 1.5) 10/523,209 | INTERNATIONAL APPLICATION NO. PCT/JP03/09454 | ATTORNEY DOCKET NUMBER TIC-0085 | | | | | | | | | | | | |
| 21. The following fees are submitted: | | | | | | | | | | | | | | |
| <table> <tr> <td><input type="checkbox"/> a) Basic national fee</td> <td>\$300.00</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> b) Examination fee</td> <td>\$200.00</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> c) Search fee</td> <td>\$500.00</td> <td>\$</td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$1000.00</td> </tr> </table> | | | <input type="checkbox"/> a) Basic national fee | \$300.00 | \$ | <input type="checkbox"/> b) Examination fee | \$200.00 | \$ | <input type="checkbox"/> c) Search fee | \$500.00 | \$ | TOTAL OF ABOVE CALCULATIONS = | | \$1000.00 |
| <input type="checkbox"/> a) Basic national fee | \$300.00 | \$ | | | | | | | | | | | | |
| <input type="checkbox"/> b) Examination fee | \$200.00 | \$ | | | | | | | | | | | | |
| <input type="checkbox"/> c) Search fee | \$500.00 | \$ | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | \$1000.00 | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | | | | | | | | | | | | |
| 100 = | /50= | \$ \$ | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | | | | | | | | | | |
| Claims | Number Filed | Number Extra | | | | | | | | | | | | |
| Total claims | - 20 = | X \$50.00 | | | | | | | | | | | | |
| Independent Claims | - 3 = | X \$200.00 | | | | | | | | | | | | |
| Multiple dependent claims(s) (if applicable) | | + \$360.00 | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | | | | | | | | | | | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by $\frac{1}{2}$. | | | | | | | | | | | | | | |
| SUBTOTAL = | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | | | | | | | | | | | | | |
| | | Amount to be: refunded | | | | | | | | | | | | |
| | | charged | | | | | | | | | | | | |
| a. <input checked="" type="checkbox"/> A check in the amount of \$130.00 to cover the above fee is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 23-3050 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner if hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed. | | | | | | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | | | | | | | | | | | |
| SEND ALL CORRESPONDENCE TO: Michael P. Dunnam Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 (215) 568-3100 | | | | | | | | | | | | | | |
|  SIGNATURE | | | | | | | | | | | | | | |
| Michael P. Dunnam NAME | | | | | | | | | | | | | | |
| 32,611 REGISTRATION NUMBER | | | | | | | | | | | | | | |